

## **ABSTRACT**

A RGB to YUV conversion is presented that provides separate lumina and chroma filtering to produce the Y data block, and the U and V data blocks. Lumina filter interpolation is performed with, for example, a 5-tap filter while chroma filtering interpolation is performed with, for example, a 7-tap filter. The filtering arrangements take advantage of the eye's higher visual sensitivity to spatial variation compared to color variation.